

# The Paneltech Concrete Form MDO Advantage

Paneltech MDO is made with an emphasis on quality. Quality in resin systems, quality in paper substrates and most of all, quality in production processes. This process focus gives superior saturation, which in turn leads to improved performance in abrasion resistance and dependability of the overlay.

## Superior Resin Distribution, Superior Performance

An even distribution of resin throughout the overlay is **critical** to the performance of concrete-form MDO. The figure below demonstrates the performance improvement using an abrasion test. Before running the abrasion test, the overlays were exposed for 72 hours to a highly alkaline solution similar in alkalinity to concrete. The panels are then abraded with an abrasion wheel. The number of cycles of the test sample are recorded and the test panel thickness and weight are tracked.

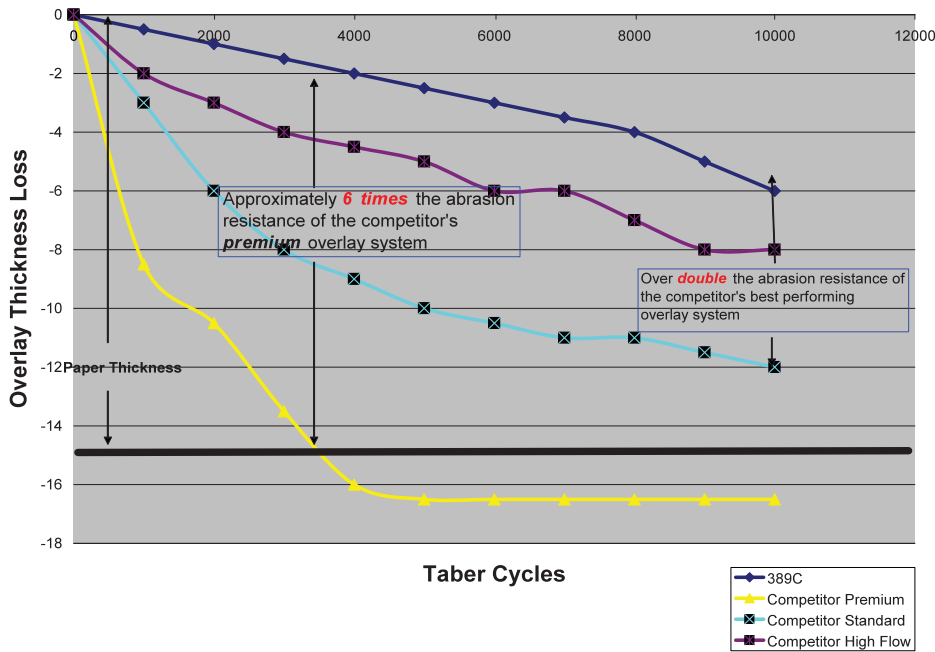
The vertical axis of the graph below represents the thickness of the paper. As you move from left to right on the graph, you can see the difference in abrasion resistance due to the degree of saturation or the resin distribution of the overlay. For a detailed explanation of why resin distribution and saturation are important, please refer to the Paneltech Tech Bulletins entitled *Overlay Basics* and *Optimized Saturation*.

The graph below shows typical results as measured by caustic abrasion testing. Field results depend greatly on a number of factors including the alkalinity of the mix, temperatures, cleaning and oiling of the forms, and so on.

Overlay performance can vary substantially with the alkalinity of the concrete mix used and the care with which the finished panels are handled. Cleaning between uses is very important. We recommend treatment first at the mill and then in the field with a good reactive form oil, such as **Nox-crete®**, to maximize the life of the panel.

Recommendations for care and handling of forms are outlined in another Paneltech Tech Bulletin, as well as a number of other excellent publications.

### Conform Overlay Performance Caustic Surface Wear



Construction project at Seattle-Tacoma International Airport using Paneltech's 389C Concrete Form Overlays

Paneltech offers several types of concrete form MDO. The standard 389C and its economical counterpart 305C offer excellent abrasion resistance compared to oiled BB plywood and the competitive alternatives. Paneltech's high-flow MDOs offer even more performance, based on their added resin content and the added densification that occurs in the press.



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# Special Notes on Paneltech's New & Improved High Flow 407C



New and improved High Flow, 407C.

*Through continuous improvement, we have developed a high flow that is optimized for consistent and reliable performance. Paneltech's High Flow is the workhorse of the concrete form MDO world.*

## Superior Surface Quality

Pour tests indicate that the high flow product gives superior surface quality, particularly when used with hardwood faces. Experts in concrete forming indicate that this surface quality approaches that of a 100/30 HDO!

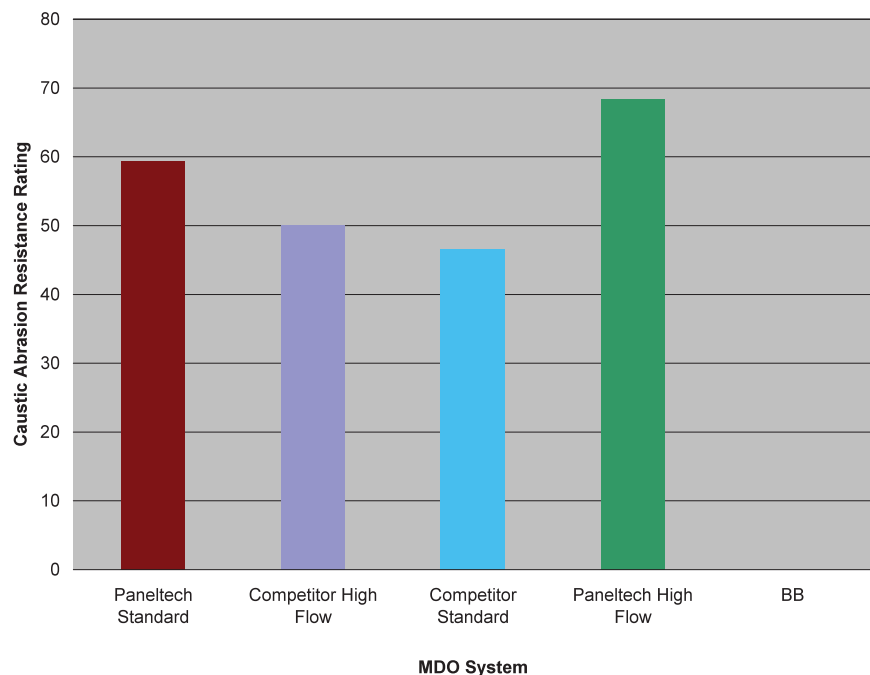
## Unmatched Check Resistance

High Flow products, because of their high resin content, can be vulnerable to checking or cracking issues in the field. Products that claim higher resin contents are particularly vulnerable. Each run of our 407C high flow is tested thoroughly by exposing it to temperatures over 200 °F for extended periods to measure its check resistance.

## Process Friendly

Paneltech's proprietary panel release system greatly reduces or eliminates the tendency of the panel to stick or bond to the press platens. The release system used will not contaminate other panel products made in the same press opening. The system is fully compatible with general purpose or paint-grade overlay products and will not cause any reduction in paint adhesion or surface quality in these products.

## Overlay Performance Compared to BB Plywood Caustic Abrasion Resistance Rating



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